

PHYSICS >> Thermodynamics

Q 1

A temperature of 162 C is equivalent to what temperature in kelvins?

A

-111 K

B

362 K

C

425 K

D

111 K

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PHYSICS >> Waves

Q 2

Which of the following frequency of sound wave is audible

A

5 Hz

B

5000 Hz

C

2500 kHz

D

50 kHz

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PHYSICS >> Current Electricity

Q 3

Calculate the work done in a resistor of 20 ohm carrying 5A of current in 3 hours.

A

1KWh

B

1.5KWh

C

2KWh

D

3KWh

2

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Q 4

The atmosphere around the earth is held by

A

clouds

B

winds

C

gravity

D

none of these

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Q 5

The frequency of applied A.C is 2 K.Hz. Its time period will be

A

0.5×10^{-3} sec

B

0.5 second

C

5 sec

D

2 sec

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Q 6

The velocity of laser light is ____ to ordinary light

A

equal

B

higher

C

lesser

D

much higher

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Q 7

In a half wave rectification, the diode conducts during

A

both half cycles

B

positive half

C

negative half

D

none of these

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Q 8

The number of protons in the nucleus is called _____ number

A

atomic

B

charge

C

atomic or charge

D

neither atomic nor charge

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Q 9

One isotope of Uranium is U-238. Any other isotope of Uranium must have

A

146 protons

B

92 protons

C

92 neutrons

D

146 neutrons

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Q 10

The presence of dielectric between two charged particles:....

A

reduces the electrostatic force

B

increases the electrostatic force

C

does not change electrostatic force

D

doubles the electrostatic force

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Q 11

A 250V bulb passes a current of 0.3A. Calculate the power in the lamp.

A

50W

B

75W

C

100W

D

90W

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Q 12

The value of angular momentum is maximum when Θ is

A

60 degrees

B

45 degrees

C

0 degree

D

90 degrees

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Q 13

"The heat required to raise the temperature of one mole of the substance through 1 K" is called:...

A

specific latent heat

B

molar heat capacity

C

molar specific heat

D

specific heat capacity

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Q 14

Microscope uses ____ wavelength to reduce diffraction

A

shorter

B

longer

C

white

D

none of these

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Q 15

All of the following are equivalent to watt except

A

$(\text{Amperes})^2 \text{ ohm}$

B

Joules/sec

C

Amperes $\times$ volts

D

Amperes/volt

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Q 16

A belt passes over a wheel of radius 25 cm. if a point on the belt has a speed of 5 m/s, the belt is moving with an angular velocity of

A 3.2 rad/s

B 0.32 rad/s

C 20 rad/s

D 0.032 rad/s

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Q 17

When currents are moving in the same direction in two conductors, then the force will be

A

attractive

B

repulsive

C

retracting

D

opposing

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Q 18

An ideal reversible heat engine is 1 efficient only if:

A

hot reservoir is at 0K

B

hot reservoir is at 0C

C

cold reservoir is at 0C

D

cold reservoir is at 0K

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Q 19

The linear acceleration will be maximum when angle between r and a is

A

0

B

90

C

60

D

none of these

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Q 20

A circuit that adds positive or negative dc voltage to an input sine wave is called

A

Clamper

B

clipper

C

diode clamp

D

limiter

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Q 21

What is the half-time of a radioactive sample (in minutes), if its mean life is 200 s?

A

0.69 min

B

2 min

C

2.57 min

D

2.31 min

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Q 22

Which of the following statements about speed of sound v , and temperature is correct:

A

v is directly related to temperature

B

v is directly related to square root of temperature

C

v is directly related to absolute temperature

D

v is directly related to square root of absolute temperature

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Q 23

The angular momentum of photon is

A

infinite

B

zero

C

negative

D

still not found

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Q 24

Which of the following is not an assumption of the kinetic model of an ideal gas?

A

particles collide elastically

B

kinetic energy of a given particle is same

C

the duration of collision between molecules is very short

D

intermolecular potential energy of the molecules is zero

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Q 25

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 m/s, then its frequency would be:....

A 40 Hz

B $1/5$ Hz

C 5 Hz

D 500 Hz

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Q 26

The minimum charge on an object can not be less than:

A

$1.6 \times 10^{-19} \text{ C}$

B

$9 \times 10^9 \text{ C}$

C

$9.1 \times 10^{-31} \text{ C}$

D

$1.6 \times 10^{-27} \text{ C}$

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Q 27

Bright Lines in pattern shows

A

absorption

B

emission

C

release

D

free particle

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Q 28

A 4kg eagle picks up a 75g snake and raises it 2.5 m from the ground to a branch. What is the work done by the eagle on the snake? (Assume $g = 10 \text{ m/s}^2$)

A 100 J

B 1.875 J

C 18.75 J

D 187.5 J

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Q 29

_____ work on arbitrary system means a transfer of energy to the system

A

Positive

B

negative

C

Can be positive or negative

D

None of the above

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Q 30

The core of transformer is made up of

A

hard iron

B

Soft iron

C

Aluminium

D

Copper

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Q 31

Most widely used rectifier is

A

half wave rectifier

B

full wave rectifier

C

bridge rectifier

D

none of them

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Q 32

Centrifugal force is a

A

real force

B

friction force

C

pseudo force

D

none of these

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Q 33

The role of inductance is equivalent to:

A

inertia

B

force

C

energy

D

momentum

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Q 34

As compared to thin wires, thick wires have

A

more resistance

B

no resistance

C

less resistance

D

same resistance

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Q 35

When deuterium and tritium fuse together they form

A

O atom

B

U atom

C

N atom

D

He atom

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Q 36

Magnetic field lines created by current carrying wire is

A

Helical

B

Elliptical

C

Hyperbolic

D

Circular

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Q 37

The magnetic field lines generated in current carrying conductor are

A

circular

B

triangular

C

linear

D

none of these

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Q 38

Which of the following is the experimental evidence in support of the Huygen's wave theory?

A

reflection

B

refraction

C

Young's double slit experiment

D

polarization

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Q 39

Transistors can be used as

A

half wave rectifier

B

full wave rectifier

C

both

D

none of these

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Q 40

A fuse is placed in series with the circuit to protect against

A

High power

B

High voltage

C

High current

D

Over heating

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Q 41

An object is moving in a circle. It completes 6 revolutions in every 3 seconds. What is its frequency?

A

$0.5 \pi \text{ Hz}$

B

$2 \pi \text{ Hz}$

C

0.5 Hz

D

2 Hz

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Q 42 A string 2m long is used to whirl a 200g stone in horizontal circle at a speed of 2m/s. Find tension in string.

A 0.4 N

B 1.4 N

C 2.4 N

D 3.4 N

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Q 43

A ball is released from the top of the tower, the ratio of work done by the gravity in first, second and third second of the motion

A 1 : 2 : 3

B 1 : 4 : 9

C 1 : 3 : 5

D 1 : 5 : 3

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Q 44

Unit of magnetic flux density is

A

Tesla

B

Wb/m^2

C

N/Am

D

All

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Q 45

A cable 4 km long and of total resistance 1 ohm carries electric current from a generator producing 100kW at 10,000 Volts. The current in amperes in the cable is

A 10

B 10,000

C 1000

D 100,000

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Q 46

The energy input to an engine is 4.00 times greater than the work it performs. What is its thermal efficiency?

A 4.00

B 1.00

C 0.25

D impossible to determine

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Q 47

A radioactive decay rate of 3.7×10^{10} disintegrations per second defines the unit of measurement known as the

A Curie

B rutherford

C rontgen

D Rad

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Q 48

Electric current may be defined as

A

Rate of flow of charge

B

Rate of flow of momentum

C

Rate of flow of power

D

None of them

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Q 49 The H atom has _____ quarks

A 1

B 2

C 3

D 4

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Q 50

Pair production is possible in ____ Photon

A

x rays

B

beta rays

C

gamma rays

D

all of these

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Q 51

If the potential difference across the two plates of a parallel plate capacitor is doubled, then energy stored in the capacitor would be:...

A remains same

B two times

C four times

D three times

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Q 52

A first harmonic stationary sound wave is produced in the air of the cylinder, which is half filled with water. More water is added to the cylinder, now first harmonic stationary wave is produced with a different frequency. What is the change in frequency and the nature of displacement in air at the water surface?

A nature of displacement = antinode change in frequency = decrease

B nature of displacement = antinode change in frequency = increase

C nature of displacement = node change in frequency = increase

D nature of displacement = node change in frequency = decrease

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Q 53

In a rectifier, larger the value of shunt capacitor filter

A

larger the peak-to-peak value of ripple voltage

B

larger the peak current in the rectifying diode

C

longer the time that current pulse flows through the diode

D

smaller the dc voltage across the load

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Q 54

Calculate the time taken for the charges to complete the circuit if the total charges were 5000 Coulomb and the current of the circuit was 20 Amp?

A 250 seconds

B 350 seconds

C 400 seconds

D 500 seconds

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Q 55

Wavelength of a travelling wave is 20 cm. What is the phase angle between the two points separated through a distance of 25cm?

A 2π B 2.5π C 3π D 1π

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Q 56

Acceleration due to gravity near earth is

A

nonuniform

B

uniform

C

decreasing with distance

D

increasing with time

55

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Q 57

The phenomenon in which compounds have same molecular formula but different structural formula is called as ___?

A

Reforming

B

Isomerism

C

Polymorphism

D

Hybridization

56

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Q 58

Classification of Solids is based upon the arrangement of

A

Molecules

B

Atoms

C

Ions

D

All of these

57

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Q 59 Which of the following are product of following reaction in the presence of sunlight? $\text{CH}_4 + \text{Cl}_2 \rightarrow ?$

A CHCl_3

B CCl_4

C $\text{CH}_2\text{Cl}_2, \text{CH}_3\text{Cl}$

D All of these

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Q 60

Organic compounds that are considered as derivatives of water are

A

Aldehydes & ketones

B

Alcohols and phenols

C

Phenols and ethers

D

Carboxylic acids

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Q 61

The properties of gases, liquids and solids can be understood by

A

atomic theory

B

potential molecular theory

C

kinetic molecular theory

D

none of these

60

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Q 62

Which of the following carboxylic acid is used as solvent in the labs ?

A Butanoic acid

B Hexanedioic acid

C Phthalic acid

D Acetic acid

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Q 63

BH₃ has a geometry with H-B-H bond angles of 12

A

linear

B

trigonal planar

C

tetrahedron

D

bent

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Q 64 Molecules that have high molecular mass and consist of large number of atoms are called as_____?

A Micro molecules

B Macromolecules

C Polypeptides

D Carbohydrates

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Q 65

Empirical formula and molecular formula of covalent molecule is

A different

B same

C variable

D equal

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Q 66

Ionization energy depends on which of the following factors?

A

Size of atoms

B

Nuclear Charge

C

Number of shells

D

All of these

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Q 67 The species which donates electrons to the central metal atom in the coordination sphere is called

A Anion

B Cation

C The ligand is positively charged

D Acid

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Q 68

Temperature for maximum yield at an appropriate reaction rate is

A

200 C

B

250C

C

450C

D

400C

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Q 69 The average and instantaneous rate can be equal

A Throughout the reaction

B Near Reaction Completion

C At one instant Only

D At start of reaction

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Q 70

SN₁ reactions have which of the following specie formed and consumed in the reaction ?

A

Transition state

B

Intermediate

C

Carbanion

D

Carbene

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Q 71 Alcohol oxidation gives carboxylic acid through

A Amide

B Carbonic acid

C Ketone

D Aldehyde

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Q 72

The method used for preparation of phenol is

A

Kolbe's method

B

Dow's method

C

Nitration

D

Williamsons synthesis

71

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Q 73

Which of the following is not a fraction of refined oil?

A

Naphtha

B

Kerosene

C

Petroleum ether

D

Dioxal

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Q 74

The elements with intermediate value of ionization energy value are called

A

metals

B

non metals

C

metalloid

D

transition elements

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Q 75

Which one of the following is formula of iodoform ?

A

 CH_3I

B

 CHI_3

C

 CH_2I_2

D

 CI_4

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Q 76

Electron affinity is the measure of ____ for extra electron

A

repulsion of electron

B

attraction of electron

C

attraction of nucleus

D

repulsion of nucleus

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Q 77 Wholar prepare urea from_____?

A Ammonium cyanate

B Ammonium acetate

C Ammonium urease

D Ammonium Carbonate

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Q 78

In oxidation number method of Balancing the first step is to write

A

Oxidation number on Reactants

B

Oxidation number on products

C

Oxidation number for both reactants & Products

D

None of these

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Q 79

Ionic solids exist in three dimensional array which is called

A

unit cell

B

lattice

C

system

D

all of these

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Q 80

Which of the following acid solution is used for the seasoning of food ?

A

Butyric acid

B

Phthalic acid

C

Lactic acid

D

Acetic acid

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Q 81

Out of 28 natural isotopes, how many have even atomic number and mass number

A

152

B

153

C

154

D

155

80

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Q 82

Maximum Hydrogen bonding is found in

A

HI

B

HF

C

HCl

D

HBr

81

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Q 83 Formic acid is obtained from _____?

A Apples

B Butter

C Ant's sting

D Foam

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Q 84

The rate of formation of ammonia is not economical at

A

Low temperature

B

Very high pressure

C

Both A and B

D

None of these

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Q 85

How many molecules of H_2 adds in acetylene to form ethane?

A 1

B 3

C 4

D 2

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Q 86 Masses of enzymes is between ____?

A Thousands

B Millions

C Hundreds

D Billions

85

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Q 87 Which of the following alcohol is most reactive in the reaction where O-H bon breaks?

A Primary alcohol

B Tertiary alcohol

C Methyl alcohol

D Secondary alcohol

86

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Q 88 For a reaction that can takes place through more than one ways, the enthalpy of that reaction is_____?

- A Same for all the routes of that reaction
- B Different for different routes of that reaction
- C Depends up on the reactants present in each route
- D None of these

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Q 89

Formyl group belongs to which class of compounds ?

A

Aldehydes

B

Ketones

C

Alkanals

D

Both a and c

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Q 90

The platinum in SHE act as a

A

Buffer

B

Salt Bridge

C

Electrical Conductor

D

All of these

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Q 91 To remove an electron from an atom is always_____?

A Exothermic process

B Endothermic Process

C Neutral

D Energy wasted

90

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Q 92

According to 'n+l' rule ,the value of 6f is 9 while 7s orbital has '7' value, it shows

A

6f filled first

B

7s placed first

C

7s placed later

D

6f placed later

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Q 93

The distillation which is carried out under reduced pressure is called as?

A

Pressure distillation

B

Reduced distillation

C

Vacuum distillation

D

Low boiling distillation

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Q 94

Which of the following act as electrophile during nitration of benzene?

A NO^+ B NO_2^+ C NO_3^+ D HNO_2^+

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Q 95

Bond Formation are associated with

A

Loss of Energy

B

Gain of Energy

C

No energy Change

D

Sharing Nucleus

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Q 96

Proteins also contain bonding

A

covalent

B

ionic

C

hydrogen

D

metallic

95

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Q 97 Intervening electrons have a negative charge which repulses other electrons and ____ attraction b/w nucleus and electrons

A blocks

B reduces

C increases

D enhances

96

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Q 98 Adhesive nature of honey and glue is due to presence of _____?

A H-bonding

B Dipole dipole forces

C Ionic forces

D Debye force

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Q 99 Formation of picric acid by phenols is called

A Decomposition

B Halogenation

C Sulphonation

D Nitration

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Q 100

Which of the following solvent favor S_N2 reactions?

A

Water

B

Ammonia

C

Carbon tetrachloride

D

Acetic acid

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Q 101

Which sulphates is not soluble in water?

A

Sodium sulphate

B

Potassium sulphate

C

Zinc sulphate

D

Barium sulphate

100

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Q 102

In Electrochemical Cell Positive Ions are migrated towards

A

Anode

B

Cathode

C

Toward the bottom of the cell

D

Towards the walls of the cell

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Q 103

Liquid hydrocarbons is converted into gaseous hydrocarbon by

A cracking

B hydrolysis

C oxidation

D distillation

102

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Q 104

When Number of moles of reactants and products are same Equilibrium constant will have

A

negative value

B

Large value

C

No units

D

Units

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Q 105

Conductivity of a solution changes with change in

A

Reactant Ions Concentration

B

Temperature of mixture

C

Adding an Impurity

D

By catalyst

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Q 106

Formation of ZnSO_4 from blue copper sulphate solution is a spontaneous

A Oxidation reaction

B Addition Reaction

C Reduction Reaction

D Redox reaction

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Q 107

The ionic radius of an ion is the radius of the ion while considering it to be _in shape

A

oval

B

round

C

rectangular

D

spherical

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Q 108

Ammonia may be prepared by heating ammonium chloride with

A

Water

B

NaCl

C

Aqueous sodium hydroxide

D

H₂SO₄

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Q 109

Which of the following has six isotopes

A

palladium

B

tin

C

cadmium

D

carbon

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Q 110

A real gas obeying Van der Waals equation will resemble to ideal gas if both a & b are

A small

B large

C equal

D none of these

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Q 111 The lattice energy of KBr is _____ KJ/ mol

A -833

B -665

C -895

D -728

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Q 112 Which of the following product is formed when Alkyl halide reaction with KOH in the presence of alcohol?

A Alkane

B Alcohol

C Halohydrin

D Alkene

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Q 113 The spinal cord acts as a link between body parts and ---

A brain

B skull

C heart

D lungs

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Q 114 $(CH_2O)_n$ is a general formula of?

A Monosaccharides

B Oligosaccharides

C Polysaccharides

D Carbohydrates

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Q 115

The covering of lungs is termed as:

A

Pleural membrane

B

Myocardium

C

Pericardium

D

Both B and C

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Q 116

A nucleotide can also said as

A

Chromatic body

B

nuclear region

C

nuclear body

D

All of Above

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Q 117

In asexual reproduction offspring are produced by which of the following?

A

meiosis

B

mitosis

C

both a and b

D

none of these

116

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 118 When two or more clearly different phenotypes exist in the same population of species then the species is called?

A genotype

B phenotype

C recombination

D polymorph

117

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 119

Which pair of areas within a chloroplast will show the steepest pH gradient between them?

A

DNA and stroma

B

ribosome and stroma

C

stroma and the space between the outer and inner membrane

D

stroma and the thylakoid space within the thylakoid membrane

118

SKIPPED QUESTIONS 

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Next Question 

Q 120

Thylakoids in chloroplasts are stacked into?

A

Grana

B

Stroma

C

Nucleus

D

None of these

119

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 121

The place of attachment of leaf with the shoot is called?

A

pith

B

pit

C

pulvinus

D

all of these

120

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 122

What type of genetic material is found in a virus?

A

DNA and RNA

B

DNA

C

RNA

D

DNA or RNA

121

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 123

Which statement is incorrect?

A

In short day plants red light prevents flowering

B

In long day plants for red light promotes flowering

C

Leaf unrolling occurs in grasses

D

Henbane is a short day plant

122

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 124

Compound Microscope was first used by

A

A.V. Leeuwenhoek

B

Pasteur

C

Janssen and Hans

D

None of these

123

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 125

The selection for a trait on one extreme is called which of the following?

A

natural selection

B

directional selection

C

stabilizing selection

D

all of these

124

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 126

Irreversible modifications require the synthesis of which of the following?

A

enzymes

B

carbohydrates

C

vitamins

D

proteins

125

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 127

Magnifying power of electron microscope as compared to eye is?

A

500 X

B

250 000 X

C

500 000 X

D

100 000 X

126

SKIPPED QUESTIONS 

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Next Question 

Q 128

The membrane of vacuole is called:

A

Tonoplast

B

Plasma membrane

C

Epidermis

D

Both B and C

127

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 129 Of the following which one is not included in Protostomes?

A arthropods

B hemichordates

C annelids

D molluscs

128

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 130

Factory of ribosomal synthesis is?

A

cytoplasm

B

nucleus

C

nucleolus

D

endoplasmic reticulum

129

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 131 Assymetrical body is a feature of phylum _____ .

A Annelida

B Arthropoda

C Porifera

D Cnidaria

130

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 132

In addition to active site, allosteric enzymes contain?

A

inhibitors

B

substrate

C

allosteric site

D

polypeptide chains

131

SKIPPED QUESTIONS 

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Next Question 

Q 133

One of the actions of the parasympathetic nervous system is?

A

Inhibits peristalsis

B

Dilates Bronchioles

C

Constriction of Pupils

D

Sweat secretion

132

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 134

Which part of the brain connects the cerebrum with the spinal cord?

A

Forebrain

B

Cerebrum

C

cerebellum

D

Brainstem

133

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 135

At joints, the exoskeleton are:

A

Thick, soft and flexible

B

Thin, soft and flexible

C

Thin, hard and immovable

D

Thick, hard and flexible

134

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 136

A scientist has discovered a new species of flower in which purple coloration is dominant to white. He wishes to know the genotype of a specific purple flower. Which of the following crosses would give him a definitive answer for the purple flower genotype?

A Unknown purple x Homozygous purple

B Unknown purple x Unknown purple

C Unknown purple x White

D none of these

135

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Q 137

What type of enzymes are involved in biological oxidation?

A

kinases

B

dehydrogenases

C

polymerases

D

phosphatases

136

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 138

Which statement is incorrect?

- A Homologous organs are functionally different but structurally alike
- B Examples of homologous structures are arms of man, forelimb of cat, flipper of whale
- C Examples of analogous structures are wings of bats, birds and insects
- D Analogous organs are functionally different but structurally alike

137

SKIPPED QUESTIONS 

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Next Question 

Q 139

Which of the following viruses possess an envelope?

A

Herpes virus

B

reovirus

C

TMV

D

Papillomavirus

138

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 140

In molecules such as glycine, the function R group of amino acids is replaced by?

A

H

B

COOH

C

CH₂

D

CH₂

139

SKIPPED QUESTIONS 

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Next Question 

Q 141

Which among the following is a diploblastic organism?

A

hydra

B

crabs

C

squid

D

earthworm

140

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 142

In the evolutionary sense, which organism has the highest fitness?

A

A sterile mule that can pull over 800 pounds

B

A childless human male who lives to be over one hundred years old

C

A dog who cannot give birth due to a hip abnormality, but is healthy in all other respects

D

A prairie dog that, though smaller than the average member of her species, has twice as many healthy young in each litter

141

SKIPPED QUESTIONS 

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Next Question 

Q 143 Which step causes activation of catalytic site of an enzyme?

A Change in pH of the surroundings.

B Change in the charge of the active site.

C Change in temperature

D Formation of Enzyme Substrate complex

142

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 144

Which of the following bacteria possesses a spherical shape?

A

Bacillus anthracis

B

Escherichia coli

C

Spirillum minus

D

Staphylococcus aureus

143

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 145

The number of chromosomes in a zygote are?

A

n

B

$2n$

C

$3n$

D

$4n$

144

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 146

Loss of lung tissue is caused by

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

145

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 147

Unit of carbohydrate is

A

monosaccharides

B

amino acids

C

fatty acids

D

all

146

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 148

Phragmoplast is a characteristic feature of:

A

Fungal cells

B

Prokaryotic cells

C

All eukaryotic cells

D

None of the above

147

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 149

During digesting the phagocytosed food particles vesicles formed from fusion of phagocytic vacuole with the enzymes secreted by Golgi apparatus are called?

A

lysosomes

B

primary lysosomes

C

secondary lysosomes

D

food vacuole

148

SKIPPED QUESTIONS 

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Next Question 

Q 150

Which of the following is false regarding the bacterial membrane?

A

Bacteria contain plasma membranes that are made up of triglycerides

B

Gram staining reveals that bacteria contain cell walls, but no cell membranes

C

Bacteria do not contain a membrane-bound nucleus, but they contain an analogous membrane-bound structure called the nucleoid

D

all of these

149

SKIPPED QUESTIONS 

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Next Question 

Q 151

Which scientist does not match his achievements in the following options?

A

Lamarck published his theory of evolution

B

Lyell published principles of geology

C

Malthus published essay on principle of population

D

Cuvier published papers on inheritance

150

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 152 The spinal cord is divided into how many different regions?

A 2

B 4

C 6

D 8

151

SKIPPED QUESTIONS 

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Next Question 

Q 153

The time in a woman's life when menstruation usually no longer occurs:

A

Late 50s

B

Mid 40s

C

Teens

D

Early 20s

152

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 154

Red-green colorblindness is an X-linked recessive disorder. Jacob's paternal grandfather and father are both colorblind, but his mother has two normal alleles. What is the probability that Jacob is red-green colorblind?

A 0%

B 25%

C 50%

D 75%

153

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 155 Which of the following combinations is incorrect?

A Nematoda- roundworms, pseudocoelomate

B Echinodermata- coelom present, bilateral symmetry

C Platyhelminthes- gastrovascular cavity, flatworms, acoelomate

D Calcarea- gastrovascular cavity, coelom present

154

SKIPPED QUESTIONS 

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Next Question 

Q 156

Which of the following impart a red colour to Rose petals?

A

chloroplast

B

chlorophyll

C

chromoplast

D

leucoplast

155

SKIPPED QUESTIONS 

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Next Question 

Q 157

What is the length of the windpipe?

A

12 cm

B

13 cm

C

15cm

D

20cm

156

SKIPPED QUESTIONS 

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Next Question 

Q 158

Pseudocoelom is a characteristic feature of which of the following?

A Coelenterates

B Platyhelminthes

C Annelids

D Aschelminthes

157

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 159

In acidic medium, amino acids carry positive charge and act as

A

acid

B

base

C

neutral

D

none of these

158

SKIPPED QUESTIONS 

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Next Question 

Q 160

In human female, the release of ovum from the follicle is called:

A

ovulation

B

fertilization

C

menstruation

D

Implantation

159

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 161

Sarcoplasm of the muscle fibre is similar to

A

Cytoplasm of other cell

B

Nucleoplasm

C

Mitochondria

D

Cell membrane

160

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 162

Enzymes involved in protein synthesis are most likely to associated with which cell organelle?

A Rough endoplasmic reticulum

B Golgi complex

C Ribosome

D All of the above

161

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 163

The number of chromosomes in gametes are?

A

n

B

$2n$

C

$3n$

D

$4n$

162

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 164

What is pyruvate broken down to, in yeast?

A

Acetyl coA

B

alcohol

C

lactic acid

D

all of these

163

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 165

Interneuron is also known as:

A

Relay neuron

B

Sensory neuron

C

Mixed neuron

D

Synapse

164

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 166

Disorders caused due to disturbance in nerve impulse generation and transmission are called?

A nerve impulse disorder

B nervous disorder

C transmission disorder

D functional disorder

165

SKIPPED QUESTIONS 

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Next Question 

Q 167

While bound to the active site, the substrate is converted into which of the following?

A

complex

B

substrate of high energy

C

product of reaction

D

both a and b

166

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 168

Which of the following statement about neuron is incorrect?

A

They not only conduct impulses but also generate them

B

They are not the only cellular component of nervous system

C

They may show limited regenerative capabilities

D

Like all the living cell, when they mature and divide to form similar cells

167

SKIPPED QUESTIONS 

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Next Question 

Q 169

How is the body plan of a lobster similar to that of a whale?

A

Closed circulatory system.

B

Mouth develops from the blastopore.

C

A tubular digestive system with a mouth and an anus.

D

The gut is not lined by coelomic epithelium.

168

SKIPPED QUESTIONS 

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Next Question 

Q 170

Which of the following is not a risk factor for miscarriage?

A

Advanced maternal age

B

Tobacco use

C

Obesity

D

Use of prenatal vitamins

169

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 171

Which statement best describes the Hardy-Weinberg principle?

- A Recessive alleles eventually disappear in large populations.
- B Expected frequencies of alleles are impossible to predict mathematically.
- C Dominant alleles become more prevalent in large populations.
- D When there is a large population, the mechanism of inheritance does not change allele frequencies.

170

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 172

Which of these is not a part of murein?

A

polypeptides

B

amino acids

C

proteins

D

glycans

171

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 173 Which of these cannot sink during translocation?

A root

B fruits

C stems

D leaves

172

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 174

The experiment that simulated conditions thought to be present on the early earth

A

Hershey Chase experiment

B

Geiger Marsden experiment

C

Schiehallion experiment

D

Miller-Urey experiment

173

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 175

lecithin contains _____

A

Ethanolamine

B

Choline

C

Serine

D

Betaine

174

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 176

What is the chemical characteristic of auxins?

A

Indole propionic acid

B

Indole carboxylic acid.

C

Indole acetaldehyde

D

Indole acetic acid.

175

SKIPPED QUESTIONS 

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Next Question 

Q 177

Streptobacillus is basically a

A

singe cell

B

chain of bacilli

C

pairs of bacilli

D

All of Above

176

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 178

Hyaline cartilage forms joint between:

A

growing bone

B

Mature bones

C

Lamellar bone

D

Secondary bone

177

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 179

Pidgeon, platypus and panda are all representatives of which of the following?

A Homeothermic

B Hyperthermic

C Poikilothermic

D none of these

178

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 180

Which of the following is paired correctly?

A

Pisces- jellyfish

B

Echinodermata- cuttlefish

C

Mollusca- starfish

D

Arthropoda- silver fish

179

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 181 My father ____ in 1956.

A died

B dies

C had die

D has died

180

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 182 Stop it! What do you think you _____?

A do

B doing

C are doing

D is doing

181

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 183 Bilal has _____ terrible headache.

A a

B an

C the

D no article

182

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 184

Choose the correct spelling of the word

A

untill

B

until

C

untel

D

antil

183

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 185

crammed

A

stuff

B

thronged

C

empty

D

unload

184

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 186

Choose the correct sentence.

A Samar bought an apple, an orange and an pear.

B Samar bought an apple a orange and a pear.

C Samar bought an apple, an orange and a pear.

D Samar bought a apple, an orange and a pear.

185

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 187

How beautiful she is!

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

186

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 188 Karim is _____ best student in the class.

A a

B an

C the

D no article

187

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 189

Ahmad is always _____ about showing up for work because he feels that tardiness is a sign of irresponsibility.

A tolerable

B punctual

C legible

D delayed

188

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 190

beckoned

A

repelled

B

moving

C

summoned

D

summoner

189

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 191 I _____ (eat) an apple.

A eat

B eaten

C eating

D ate

190

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 192 Twenty years _____ the minimum age to fill this form.

A are

B is

C has

D have

191

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 193 The police are searching for the _____ of a Blue motorbike.

A detective

B owner

C instructor

D rider

192

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 194

They would not (A)/ have able to (B)/ plan the details of the trip (C)/ without your help. (D)

A They would not

B have able to

C plan the details of the trip

D without your help.

193

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 195

Choose the correct sentence.

A After class, but before lunch, I went jogging.

B After class, but before lunch I went jogging.

C After class but before lunch, I went jogging.

D After class, but before lunch, I went jogging!

194

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 196

His new appointment takes from the beginning of next month.

A place

B effect

C post

D part

195

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 197

I _____ a letter now.

A

write

B

writing

C

am writing

D

am writting

196

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 198

Not only the students but also their instructor _____ been called to the principal's office.

A has

B have

C were

D was

197

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 199

The students were (A)/ awaiting for (B)/ the arrival of (C)/ the chief guest. (D)

A The students were

B awaiting for

C the arrival of

D the chief guest.

198

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 200

Choose the correct sentence.

- A Mr. and Mrs. Jalal stated, "We refuse to use the elevator because of mechanical problems!"
- B Mr. and Mrs. jalal stated, "we refuse to use the elevator because of mechanical problems."
- C Mr. and Mrs. Jalal stated, "We refuse to use the elevator because of mechanical problems."
- D Mr. and Mrs. Jalal stated we refuse to use the elevator because of mechanical problems.

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Next Question 

Complete the series

Q 201

What is the common vowel in Apple and Banana?

A E

B P

C A

D M

200

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Statements and Actions

Q 202

Statement There has been an unprecedented increase in the number of requests for seats in most of the long distance trains during the current holiday season. I. The Statement There is an unprecedented increase in migration of villagers to urban areas as repeated crop failure has put them into precarious financial situation. Courses of Action I. The villagers should be provided with alternate source of income in their villages which will make them stay put. II. The migrated villagers should be provided with jobs in the urban areas to help them survive. authority should immediately increase the capacity in each of these trains by attaching additional coaches. II. The people seeking accommodation should be advised to make their travel plan after the holiday.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

Number series

Q 203

look at this series 7,10,8,11,9,12. Which number you think will be next?

A 10

B 13

C 7

D 12

202

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Series completion (Numbers/Letters)

Q 204

Which word does NOT belong with the others?

A

index

B

glossary

C

chapter

D

book

203

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Verbal Classification

Q 205

The world's highest plateau is:

A

Pamir Plateau

B

Potwar Plateau

C

Colorado Plateau

D

Both A and B

204

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Number series

Q 206

Look at this series 80, 10, 70, 15, 60. What number should come next?

A 20

B 25

C 30

D 50

205

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Fact Checking

Q 207

Fact 1 Pictures can tell a story Fact 2 All storybooks have a picture Fact 3 Some story books have words If the above three statements are facts than which of the following statement will also be a fact I. Pictures can tell a story better than words can II. The stories in storybooks are simple III. Some story books have both pictures and words

- A Only I
- B Only II
- C Only III
- D None of them is a fact

206

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Logical Quiz

Q 208 If the expression ' $Z \geq Y = W \leq X$ ' is definitely true. Then which of the following expressions may not be true

A $W \leq Z$

B $X \geq Z$

C Both A and B

D $Y \leq X$

207

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Dependent Causes/ Independent Causes/

Q 209

Statement: Most of the steel producing companies in the country have made considerable profit during the last financial year. Many Asian countries have been importing huge quantities of steel from Pakistan

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

208

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Complete the series

Q 210 Complete the series A3.3, B6.6, C9.9, _____?

A D13.4

B D13.2

C D13.1

D D13.2

209

SKIPPED QUESTIONS 

 Previous Question

Submit

Q1 A string 2m long is used to whirl a 200g stone in horizontal circle at a speed of 2m/s. Find tension in string.

A 0.4 N

B 1.4 N

C 2.4 N

D 3.4 N

< Previous Question

Next Question >

Q2

If the potential difference across the two plates of a parallel plate capacitor is doubled, then energy stored in the capacitor would be:...

A remains same

B two times

C four times

D three times

[< Previous Question](#)[Next Question >](#)

Q3

The distillation which is carried out under reduced pressure is called as?

A

Pressure distillation

B

Reduced distillation

C

Vacuum distillation

D

Low boiling distillation

[< Previous Question](#)[Next Question >](#)

Q4

When two or more clearly different phenotypes exist in the same population of species then the species is called?

A

genotype

B

phenotype

C

recombination

D

polymorph

[< Previous Question](#)[Next Question >](#)

Q5

Irreversible modifications require the synthesis of which of the following?

A

enzymes

B

carbohydrates

C

vitamins

D

proteins

[< Previous Question](#)[Next Question >](#)

Q6 At joints, the exoskeleton are:

A Thick, soft and flexible

B Thin, soft and flexible

C Thin, hard and immovable

D Thick, hard and flexible

< Previous Question

Next Question >

Q7 Which of the following frequency of sound wave is audible

A 5 Hz

B 5000 Hz

C 2500 kHz

D 50 kHz

< Previous Question

Next Question >

Q8

Calculate the work done in a resistor of 20 ohm carrying 5A of current in 3 hours.

A

1KWh

B

1.5KWh

C

2KWh

D

3KWh

< Previous Question

Next Question >

Q9 The atmosphere around the earth is held by

A clouds

B winds

C gravity

D none of these

< Previous Question

Next Question >

Q10 The frequency of applied A.C is 2 K.Hz. Its time period will be

A 0.5×10^{-3} sec

B 0.5 second

C 5 sec

D 2 sec

< Previous Question

Next Question >

Q11 The velocity of laser light is ____ to ordinary light

A equal

B higher

C lesser

D much higher

< Previous Question

Next Question >

Q12

In a half wave rectification, the diode conducts during

A

both half cycles

B

positive half

C

negative half

D

none of these

[< Previous Question](#)[Next Question >](#)

Q13

The number of protons in the nucleus is called _____ number

A

atomic

B

charge

C

atomic or charge

D

neither atomic nor charge

[< Previous Question](#)[Next Question >](#)

Q14 The presence of dielectric between two charged particles:....

A reduces the electrostatic force

B increases the electrostatic force

C does not change electrostatic force

D doubles the electrostatic force

< Previous Question

Next Question >

Q15

A 250V bulb passes a current of 0.3A. Calculate the power in the lamp.

A

50W

B

75W

C

100W

D

90W

< Previous Question

Next Question >

Q16

The value of angular momentum is maximum when θ is

A

60 degrees

B

45 degrees

C

0 degree

D

90 degrees

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Q17 "The heat required to raise the temperature of one mole of the substance through 1 K" is called:...

A specific latent heat

B molar heat capacity

C molar specific heat

D specific heat capacity

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Q18 Microscope uses ____ wavelength to reduce diffraction

A shorter

B longer

C white

D none of these

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Q19 All of the following are equivalent to watt except

A $(\text{Amperes})^2 \text{ ohm}$

B Joules/sec

C Amperes $\times$ volts

D Amperes/volt

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Q20

A belt passes over a wheel of radius 25 cm. if a point on the belt has a speed of 5 m/s, the belt is moving with an angular velocity of

A 3.2 rad/s

B 0.32 rad/s

C 20 rad/s

D 0.032 rad/s

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Q21 An ideal reversible heat engine is 1 efficient only if:

A hot reservoir is at 0K

B hot reservoir is at 0C

C cold reservoir is at 0C

D cold reservoir is at 0K

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Q22

The linear acceleration will be maximum when angle between r and a is

A

0

B

90

C

60

D

none of these

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Q23

A circuit that adds positive or negative dc voltage to an input sine wave is called

A

Clamper

B

clipper

C

diode clamp

D

limiter

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Q24

What is the half-time of a radioactive sample (in minutes), if its mean life is 200 s?

A

0.69 min

B

2 min

C

2.57 min

D

2.31 min

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Q25 Which of the following statements about speed of sound v , and temperature is correct:

- A v is directly related to temperature
- B v is directly related to square root of temperature
- C v is directly related to absolute temperature
- D v is directly related to square root of absolute temperature

Q26 The angular momentum of photon is

A infinite

B zero

C negative

D still not found

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Q27

Which of the following is not an assumption of the kinetic model of an ideal gas?

A

particles collide elastically

B

kinetic energy of a given particle is same

C

the duration of collision between molecules is very short

D

intermolecular potential energy of the molecules is zero

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Q28

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 m/s, then its frequency would be:....

A 40 Hz

B $1/5$ Hz

C 5 Hz

D 500 Hz

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Q29

Bright Lines in pattern shows

A

absorption

B

emission

C

release

D

free particle

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Q30

A 4kg eagle picks up a 75g snake and raises it 2.5 m from the ground to a branch. What is the work done by the eagle on the snake? (Assume $g = 10 \text{ m/s}^2$)

A 100 J

B 1.875 J

C 18.75 J

D 187.5 J

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Q31

_____work on arbitrary system means a transfer of energy to the system

A

Positive

B

negative

C

Can be positive or negative

D

None of the above

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Q32

The core of transformer is made up of

A

hard iron

B

Soft iron

C

Aluminium

D

Copper

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Q33

Most widely used rectifier is

A

half wave rectifier

B

full wave rectifier

C

bridge rectifier

D

none of them

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Q34 Centrifugal force is a

A real force

B friction force

C pseudo force

D none of these

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Q35

The role of inductance is equivalent to:

A

inertia

B

force

C

energy

D

momentum

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Q36

When deuterium and tritium fuse together they form

A

O atom

B

U atom

C

N atom

D

He atom

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Q37

Magnetic field lines created by current carrying wire is

A

Helical

B

Elliptical

C

Hyperbolic

D

Circular

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Q38

The magnetic field lines generated in current carrying conductor are

A

circular

B

triangular

C

linear

D

none of these

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Q39 Which of the following is the experimental evidence in support of the Huygen's wave theory?

A reflection

B refraction

C Young's double slit experiment

D polarization

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Q40

Transistors can be used as

A

half wave rectifier

B

full wave rectifier

C

both

D

none of these

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Q41 A fuse is placed in series with the circuit to protect against

A High power

B High voltage

C High current

D Over heating

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Q42 An object is moving in a circle. It completes 6 revolutions in every 3 seconds. What is its frequency?

A $0.5 \pi \text{ Hz}$

B $2 \pi \text{ Hz}$

C 0.5 Hz

D 2 Hz

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Q43

A ball is released from the top of the tower, the ratio of work done by the gravity in first, second and third second of the motion

A $1:2:3$

B $1:4:9$

C $1:3:5$

D $1:5:3$

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Q44

Unit of magnetic flux density is

A

Tesla

B

 Wb/m^2

C

 N/Am

D

All

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Q45

A cable 4 km long and of total resistance 1 ohm carries electric current from a generator producing 100kW at 10,000 Volts. The current in amperes in the cable is

A 10

B 10,000

C 1000

D 100,000

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Q46

The energy input to an engine is 4.00 times greater than the work it performs. What is its thermal efficiency?

A 4.00

B 1.00

C 0.25

D impossible to determine

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Q47

A radioactive decay rate of 3.7×10^{10} disintegrations per second defines the unit of measurement known as the

A Curie

B rutherford

C rontgen

D Rad

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Q48 Electric current may be defined as

A Rate of flow of charge

B Rate of flow of momentum

C Rate of flow of power

D None of them

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Q49 The H atom has _____ quarks

A 1

B 2

C 3

D 4

< Previous Question

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Q50

Pair production is possible in ____ Photon

A

x rays

B

beta rays

C

gamma rays

D

all of these

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Q51

A first harmonic stationary sound wave is produced in the air of the cylinder, which is half filled with water. More water is added to the cylinder, now first harmonic stationary wave is produced with a different frequency. What is the change in frequency and the nature of displacement in air at the water surface?

A nature of displacement = antinode change in frequency = decrease

B nature of displacement = antinode change in frequency = increase

C nature of displacement = node change in frequency = increase

D nature of displacement = node change in frequency = decrease

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Q52

In a rectifier, larger the value of shunt capacitor filter

A

larger the peak-to-peak value of ripple voltage

B

larger the peak current in the rectifying diode

C

longer the time that current pulse flows through the diode

D

smaller the dc voltage across the load

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Q53

Calculate the time taken for the charges to complete the circuit if the total charges were 5000 Coulomb and the current of the circuit was 20 Amp?

A 250 seconds

B 350 seconds

C 400 seconds

D 500 seconds

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Q54

Wavelength of a travelling wave is 20 cm. What is the phase angle between the two points separated through a distance of 25cm?

A 2π B 2.5π C 3π D 1π

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Q55

Acceleration due to gravity near earth is

A

nonuniform

B

uniform

C

decreasing with distance

D

increasing with time

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Q56

The phenomenon in which compounds have same molecular formula but different structural formula is called as___?

A

Reforming

B

Isomerism

C

Polymorphism

D

Hybridization

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Q57

Classification of Solids is based upon the arrangement of

A

Molecules

B

Atoms

C

Ions

D

All of these

< Previous Question

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Q58

Organic compounds that are considered as derivatives of water are

A

Aldehydes & ketones

B

Alcohols and phenols

C

Phenols and ethers

D

Carboxylic acids

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Q59

The properties of gases, liquids and solids can be understood by

A

atomic theory

B

potential molecular theory

C

kinetic molecular theory

D

none of these

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Q60 Which of the following carboxylic acid is used as solvent in the labs ?

A Butanoic acid

B Hexanedioic acid

C Phthalic acid

D Acetic acid

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Q61 BH3 has a geometry with H-B-H bond angles of 12

A linear

B trigonal planar

C tetrahedron

D bent

< Previous Question

Next Question >

Q62 Molecules that have high molecular mass and consist of large number of atoms are called as _____?

A Micro molecules

B Macromolecules

C Polypeptides

D Carbohydrates

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Q63

Empirical formula and molecular formula of covalent molecule is

A

different

B

same

C

variable

D

equal

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Q64 Ionization energy depends on which of the following factors?

A Size of atoms

B Nuclear Charge

C Number of shells

D All of these

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Q65

Temperature for maximum yield at an appropriate reaction rate is

A

200 C

B

250C

C

450C

D

400C

< Previous Question

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Q66 The average and instantaneous rate can be equal

A Throughout the reaction

B Near Reaction Completion

C At one instant Only

D At start of reaction

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Q67 SN1 reactions have which of the following species formed and consumed in the reaction ?

A Transition state

B Intermediate

C Carbanion

D Carbene

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Q68 Alcohol oxidation gives carboxylic acid through

A Amide

B Carbonic acid

C Ketone

D Aldehyde

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Q69

The method used for preparation of phenol is

A

Kolbe's method

B

Dow's method

C

Nitration

D

Williamsons synthesis

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Q70 Which of the following is not a fraction of refined oil?

A Naphtha

B Kerosene

C Petroleum ether

D Dioxal

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Q71

The elements with intermediate value of ionization energy value are called

A

metals

B

non metals

C

metalloid

D

transition elements

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Q72 Which one of the following is formula of iodoform ?

A CH_3I

B CHI_3

C CH_2I_2

D Cl_4

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Next Question >

Q73 Wholar prepare urea from_____?

A Ammonium cyanate

B Ammonium acetate

C Ammonium urease

D Ammonium Carbonate

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Next Question >

Q74 The species which donates electrons to the central metal atom in the coordination sphere is called

A Anion

B Cation

C The ligand is positively charged

D Acid

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Next Question >

Q75 Electron affinity is the measure of ____ for extra electron

A repulsion of electron

B attraction of electron

C attraction of nucleus

D repulsion of nucleus

< Previous Question

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Q76

How many molecules of H_2 adds in acetylene to form ethane?

A

1

B

3

C

4

D

2

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Q77

Ionic solids exist in three dimensional array which is called

A

unit cell

B

lattice

C

system

D

all of these

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Q78

Which of the following acid solution is used for the seasoning of food ?

A

Butyric acid

B

Phthalic acid

C

Lactic acid

D

Acetic acid

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Q79

Out of 28 natural isotopes, how many have even atomic number and mass number

A 152

B 153

C 154

D 155

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Q80

Maximum Hydrogen bonding is found in

A

HI

B

HF

C

HCl

D

HBr

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Q81 Formic acid is obtained from _____?

A Apples

B Butter

C Ant's sting

D Foam

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Q82

The rate of formation of ammonia is not economical at

A

Low temperature

B

Very high pressure

C

Both A and B

D

None of these

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Q83 Masses of enzymes is between ____?

A Thousands

B Millions

C Hundreds

D Billions

< Previous Question

Next Question >

Q84 Which of the following alcohol is most reactive in the reaction where O-H bon breaks?

A Primary alcohol

B Tertiary alcohol

C Methyl alcohol

D Secondary alcohol

< Previous Question

Next Question >

Q85 For a reaction that can take place through more than one way, the enthalpy of that reaction is _____?

- A Same for all the routes of that reaction
- B Different for different routes of that reaction
- C Depends up on the reactants present in each route
- D None of these

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Q86

Formyl group belongs to which class of compounds ?

A

Aldehydes

B

Ketones

C

Alkanals

D

Both a and c

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Q87

The platinum in SHE act as a

A

Buffer

B

Salt Bridge

C

Electrical Conductor

D

All of these

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Q88

To remove an electron from an atom is always_____?

A

Exothermic process

B

Endothermic Process

C

Neutral

D

Energy wasted

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Q89

According to 'n+l' rule ,the value of 6f is 9 while 7s orbital has '7' value, it shows

A

6f filled first

B

7s placed first

C

7s placed later

D

6f placed later

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Q90

Which of the following act as electrophile during nitration of benzene?

A NO^+

B NO_2^+

C NO_3^+

D HNO_2^+

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Q91 Bond Formation are associated with

A Loss of Energy

B Gain of Energy

C No energy Change

D Sharing Nucleus

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Q92

Proteins also contain bonding

A

covalent

B

ionic

C

hydrogen

D

metallic

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Q93

Intervening electrons have a negative charge which repulses other electrons and ___ attraction b/w nucleus and electrons

A blocks

B reduces

C increases

D enhances

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Q94

Adhesive nature of honey and glue is due to presence of _____?

A

H-bonding

B

Dipole dipole forces

C

Ionic forces

D

Debye force

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Q95 Formation of picric acid by phenols is called

A Decomposition

B Halogenation

C Sulphonation

D Nitration

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Q96

Which of the following solvent favor S_N2 reactions?

A

Water

B

Ammonia

C

Carbon tetrachloride

D

Acetic acid

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Q97

In Electrochemical Cell Positive Ions are migrated towards

A

Anode

B

Cathode

C

Toward the bottom of the cell

D

Towards the walls of the cell

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Q98

Liquid hydrocarbons is converted into gaseous hydrocarbon by

A

cracking

B

hydrolysis

C

oxidation

D

distillation

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Q99 When Number of moles of reactants and products are same Equilibrium constant will have

A negative value

B Large value

C No units

D Units

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Q100

Conductivity of a solution changes with change in

A

Reactant Ions Concentration

B

Temperature of mixture

C

Adding an Impurity

D

By catalyst

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Q101

Formation of ZnSO_4 from blue copper sulphate solution is a spontaneous

A Oxidation reaction

B Addition Reaction

C Reduction Reaction

D Redox reaction

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Q102

The ionic radius of an ion is the radius of the ion while considering it to be _in shape

A oval

B round

C rectangular

D spherical

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Q103

Ammonia may be prepared by heating ammonium chloride with

A

Water

B

NaCl

C

Aqueous sodium hydroxide

D

H₂SO₄

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Q104

Which of the following has six isotopes

A palladium

B tin

C cadmium

D carbon

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Q105

The lattice energy of KBr is _____KJ/ mol

A

-833

B

-665

C

-895

D

-728

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Next Question >

Q106 Which of the following product is formed when Alkyl halide reaction with KOH in the presence of alcohol?

A Alkane

B Alcohol

C Halohydrin

D Alkene

< Previous Question

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Q106 Which of the following product is formed when Alkyl halide reaction with KOH in the presence of alcohol?

A Alkane

B Alcohol

C Halohydrin

D Alkene

< Previous Question

Next Question >

Q107

The spinal cord acts as a link between body parts and ---

A

brain

B

skull

C

heart

D

lungs

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Q108

$(CH_2O)_n$ is a general formula of?

A

Monosaccharides

B

Oligosaccharides

C

Polysaccharides

D

Carbohydrates

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Q109

The covering of lungs is termed as:

A

Pleural membrane

B

Myocardium

C

Pericardium

D

Both B and C

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Q110

A nucleotide can also said as

A Chromatic body

B nuclear region

C nuclear body

D All of Above

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Q111

In asexual reproduction offspring are produced by which of the following?

A meiosis

B mitosis

C both a and b

D none of these

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Q112

Which pair of areas within a chloroplast will show the steepest pH gradient between them?

A

DNA and stroma

B

ribosome and stroma

C

stroma and the space between the outer and inner membrane

D

stroma and the thylakoid space within the thylakoid membrane

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Q113

Thylakoids in chloroplasts are stacked into?

A

Grana

B

Stroma

C

Nucleus

D

None of these

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Q114

The place of attachment of leaf with the shoot is called?

A

pith

B

pit

C

pulvinus

D

all of these

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Q115

What type of genetic material is found in a virus?

A DNA and RNA

B DNA

C RNA

D DNA or RNA

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Q116 Which statement is incorrect?

- A In short day plants red light prevents flowering
- B In long day plants for red light promotes flowering
- C Leaf unrolling occurs in grasses
- D Henbane is a short day plant

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Q117

Compound Microscope was first used by

A

A.V. Leeuwenhoek

B

Pasteur

C

Janssen and Hans

D

None of these

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Q118

The selection for a trait on one extreme is called which of the following?

A natural selection

B directional selection

C stabilizing selection

D all of these

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Q119 Magnifying power of electron microscope as compared to eye is?

A 500 X

B 250 000 X

C 500 000 X

D 100 000 X

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Q120

The membrane of vacuole is called:

A

Tonoplast

B

Plasma membrane

C

Epidermis

D

Both B and C

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Q121

Of the following which one is not included in Protostomes?

A arthropods

B hemichordates

C annelids

D molluscs

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Q122

Factory of ribosomal synthesis is?

A cytoplasm

B nucleus

C nucleolus

D endoplasmic reticulum

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Q123

Assymetrical body is a feature of phylum _____ .

A

Annelida

B

Arthropoda

C

Porifera

D

Cnidaria

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Q124

In addition to active site, allosteric enzymes contain?

A

inhibitors

B

substrate

C

allosteric site

D

polypeptide chains

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Q125

One of the actions of the parasympathetic nervous system is?

A Inhibits peristalsis

B Dilates Bronchioles

C Constriction of Pupils

D Sweat secretion

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Q126

Which part of the brain connects the cerebrum with the spinal cord?

A

Forebrain

B

Cerebrum

C

cerebellum

D

Brainstem

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Q127

A scientist has discovered a new species of flower in which purple coloration is dominant to white. He wishes to know the genotype of a specific purple flower. Which of the following crosses would give him a definitive answer for the purple flower genotype?

A Unknown purple x Homozygous purple

B Unknown purple x Unknown purple

C Unknown purple x White

D none of these

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Q128

What type of enzymes are involved in biological oxidation?

A

kinases

B

dehydrogenases

C

polymerases

D

phosphatases

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Q129

Which statement is incorrect?

- A Homologous organs are functionally different but structurally alike
- B Examples of homologous structures are arms of man, forelimb of cat, flipper of whale
- C Examples of analogous structures are wings of bats, birds and insects
- D Analogous organs are functionally different but structurally alike

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Q130

Which of the following viruses possess an envelope?

A

Herpes virus

B

reovirus

C

TMV

D

Papillomavirus

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Q131

In molecules such as glycine, the function R group of amino acids is replaced by?

A H

B COOH

C CH₂

D CH₂

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Q132

Which among the following is a diploblastic organism?

A

hydra

B

crabs

C

squid

D

earthworm

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Q133

In the evolutionary sense, which organism has the highest fitness?

A

A sterile mule that can pull over 800 pounds

B

A childless human male who lives to be over one hundred years old

C

A dog who cannot give birth due to a hip abnormality, but is healthy in all other respects

D

A prairie dog that, though smaller than the average member of her species, has twice as many healthy young in each litter

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Q134

Which of the following bacteria possesses a spherical shape?

A Bacillus anthracis

B Escherichia coli

C Spirillum minus

D Staphylococcus aureus

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Q135

The number of chromosomes in a zygote are?

A

 n

B

 $2n$

C

 $3n$

D

 $4n$

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Q136

Loss of lung tissue is caused by

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

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Q137

Unit of carbohydrate is

A

monosaccharides

B

amino acids

C

fatty acids

D

all

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Q138

Phragmoplast is a characteristic feature of:

A

Fungal cells

B

Prokaryotic cells

C

All eukaryotic cells

D

None of the above

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Q139

During digesting the phagocytosed food particles vesicles formed from fusion of phagocytic vacuole with the enzymes secreted by Golgi apparatus are called?

- A lysosomes
- B primary lysosomes
- C secondary lysosomes
- D food vacuole

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Q140 Which of the following is false regarding the bacterial membrane?

- A Bacteria contain plasma membranes that are made up of triglycerides
- B Gram staining reveals that bacteria contain cell walls, but no cell membranes
- C Bacteria do not contain a membrane-bound nucleus, but they contain an analogous membrane-bound structure called the nucleoid
- D all of these

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Q141

The spinal cord is divided into how many different regions?

A

2

B

4

C

6

D

8

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Q142

The time in a woman's life when menstruation usually no longer occurs:

A

Late 50s

B

Mid 40s

C

Teens

D

Early 20s

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Q143

Red-green colorblindness is an X-linked recessive disorder. Jacob's paternal grandfather and father are both colorblind, but his mother has two normal alleles. What is the probability that Jacob is red-green colorblind?

A

0%

B

25%

C

50%

D

75%

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Q144

Which of the following combinations is incorrect?

A

Nematoda- roundworms, pseudocoelomate

B

Echinodermata- coelom present, bilateral symmetry

C

Platyhelminthes- gastrovascular cavity, flatworms, acoelomate

D

Calcarea- gastrovascular cavity, coelom present

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Q145

Which of the following impart a red colour to Rose petals?

A chloroplast

B chlorophyll

C chromoplast

D leucoplast

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Q146

What is the length of the windpipe?

A

12 cm

B

13 cm

C

15cm

D

20cm

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Q147

Pseudocoelom is a characteristic feature of which of the following?

A Coelenterates

B Platyhelminthes

C Annelids

D Aschelminthes

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Q148

In acidic medium, amino acids carry positive charge and act as

A acid

B base

C neutral

D none of these

< Previous Question

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Q149

Sarcoplasm of the muscle fibre is similar to

A

Cytoplasm of other cell

B

Nucleoplasm

C

Mitochondria

D

Cell membrane

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Q150

Enzymes involved in protein synthesis are most likely to associated with which cell organelle?

A Rough endoplasmic reticulum

B Golgi complex

C Ribosome

D All of the above

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Q151

The number of chromosomes in gametes are?

A

 n

B

 $2n$

C

 $3n$

D

 $4n$

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Q152

What is pyruvate broken down to, in yeast?

A

Acetyl coA

B

alcohol

C

lactic acid

D

all of these

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Q153

Interneuron is also known as:

A

Relay neuron

B

Sensory neuron

C

Mixed neuron

D

Synapse

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Q154

Disorders caused due to disturbance in nerve impulse generation and transmission are called?

A nerve impulse disorder

B nervous disorder

C transmission disorder

D functional disorder

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Q155

While bound to the active site, the substrate is converted into which of the following?

A

complex

B

substrate of high energy

C

product of reaction

D

both a and b

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Q156

Which of the following statement about neuron is incorrect?

A

They not only conduct impulses but also generate them

B

They are not the only cellular component of nervous system

C

They may show limited regenerative capabilities

D

Like all the living cell, when they mature and divide to form similar cells

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Q157

How is the body plan of a lobster similar to that of a whale?

A

Closed circulatory system.

B

Mouth develops from the blastopore.

C

A tubular digestive system with a mouth and an anus.

D

The gut is not lined by coelomic epithelium.

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Q158

Which of the following is not a risk factor for miscarriage?

A

Advanced maternal age

B

Tobacco use

C

Obesity

D

Use of prenatal vitamins

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Q159

Which statement best describes the Hardy-Weinberg principle?

- A Recessive alleles eventually disappear in large populations.
- B Expected frequencies of alleles are impossible to predict mathematically.
- C Dominant alleles become more prevalent in large populations.
- D When there is a large population, the mechanism of inheritance does not change allele frequencies.

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Q160

Which of these is not a part of murein?

A polypeptides

B amino acids

C proteins

D glycans

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Q161 Which of these cannot sink during translocation?

A root

B fruits

C stems

D leaves

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Q162

The experiment that simulated conditions thought to be present on the early earth

A

Hershey Chase experiment

B

Geiger Marsden experiment

C

Schiehallion experiment

D

Miller-Urey experiment

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Q163

lecithin contains _____

A

Ethanolamine

B

Choline

C

Serine

D

Betaine

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Q164

What is the chemical characteristic of auxins?

A Indole propionic acid

B Indole carboxylic acid.

C Indole acetaldehyde

D Indole acetic acid.

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Q165

Streptobacillus is basically a

A

single cell

B

chain of bacilli

C

pairs of bacilli

D

All of Above

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Q166

Hyaline cartilage forms joint between:

A

growing bone

B

Mature bones

C

Lamellar bone

D

Secondary bone

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Q167

Pidgeon, platypus and panda are all representatives of which of the following?

A Homeothermic

B Hyperthermic

C Poikilothermic

D none of these

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Q168

Which of the following is paired correctly?

A Pisces- jellyfish

B Echinodermata- cuttlefish

C Mollusca- starfish

D Arthropoda- silver fish

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Q169

My father ____ in 1956.

A

died

B

dies

C

had die

D

has died

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Q170

Stop it! What do you think you _____?

A

do

B

doing

C

are doing

D

is doing

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Q171

Bilal has _____ terrible headache.

A

a

B

an

C

the

D

no article

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Q172

Choose the correct spelling of the word

A

untill

B

until

C

untel

D

antil

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Q173

crammed

A

stuff

B

thronged

C

empty

D

unload

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Q174

Choose the correct sentence.

A Samar bought an apple, an orange and an pear.

B Samar bought an apple a orange and a pear.

C Samar bought an apple, an orange and a pear.

D Samar bought a apple, an orange and a pear.

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Q175

How beautiful she is!

A Declarative

B Imperative

C Interrogative

D Exclamatory

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Q176

Karim is _____ best student in the class.

A

a

B

an

C

the

D

no article

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Q177

Ahmad is always _____ about showing up for work because he feels that tardiness is a sign of irresponsibility.

A tolerable

B punctual

C legible

D delayed

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Q178

beckoned

A

repelled

B

moving

C

summoned

D

summoner

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Q179

I _____ (eat) an apple.

A

eat

B

eaten

C

eating

D

ate

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Q180 Twenty years _____ the minimum age to fill this form.

A are

B is

C has

D have

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Q181

The police are searching for the _____ of a Blue motorbike.

A

detective

B

owner

C

instructor

D

rider

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Q182

They would not (A)/ have able to (B)/ plan the details of the trip (C)/ without your help. (D)

A

They would not

B

have able to

C

plan the details of the trip

D

without your help.

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Q183

Choose the correct sentence.

A

After class, but before lunch, I went jogging.

B

After class, but before lunch I went jogging.

C

After class but before lunch, I went jogging.

D

After class, but before lunch, I went jogging!

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Q184

His new appointment takes from the beginning of next month.

A place

B effect

C post

D part

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Q185

I _____ a letter now.

A

write

B

writing

C

am writing

D

am writting

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Q186

Not only the students but also their instructor _____ been called to the principal's office.

A has

B have

C were

D was

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Q187

The students were (A)/ awaiting for (B)/ the arrival of (C)/ the chief guest. (D)

A

The students were

B

awaiting for

C

the arrival of

D

the chief guest.

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Q188

Choose the correct sentence.

- A Mr. and Mrs. Jalal stated, "We refuse to use the elevator because of mechanical problems!"
- B Mr. and Mrs. jalal stated, "we refuse to use the elevator because of mechanical problems."
- C Mr. and Mrs. Jalal stated, "We refuse to use the elevator because of mechanical problems."
- D Mr. and Mrs. Jalal stated we refuse to use the elevator because of mechanical problems.

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Q189

What is the common vowel in Apple and Banana?

A E

B P

C A

D M

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Q190

Statement There has been an unprecedented increase in the number of requests for seats in most of the long distance trains during the current holiday season. I. The Statement There is an unprecedented increase in migration of villagers to urban areas as repeated crop failure has put them into precarious financial situation. Courses of Action I. The villagers should be provided with alternate source of income in their villages which will make them stay put. II. The migrated villagers should be provided with jobs in the urban areas to help them survive. authority should immediately increase the capacity in each of these trains by attaching additional coaches. II. The people seeking accommodation should be advised to make their travel plan after the holiday.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

Q191

look at this series 7,10,8,11,9,12. Which number you think will be next?

A 10

B 13

C 7

D 12

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Q191

look at this series 7,10,8,11,9,12. Which number you think will be next?

A 10

B 13

C 7

D 12

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Q192

Which word does NOT belong with the others?

A

index

B

glossary

C

chapter

D

book

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Q193

The world's highest plateau is:

A

Pamir Plateau

B

Potwar Plateau

C

Colorado Plateau

D

Both A and B

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Q194

Look at this series 80, 10, 70, 15, 60. What number should come next?

A 20

B 25

C 30

D 50

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Q195

Fact 1 Pictures can tell a story Fact 2 All storybooks have a picture Fact 3 Some story books have words If the above three statements are facts then which of the following statement will also be a fact I. Pictures can tell a story better than words can II. The stories in storybooks are simple III. Some story books have both pictures and words

A Only I

B Only II

C Only III

D None of them is a fact

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Q196 If the expression ' $Z \geq Y = W \leq X$ ' is definitely true. Then which of the following expressions may not be true

A $W \leq Z$

B $X \geq Z$

C Both A and B

D $Y \leq X$

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Q197

Statement: Most of the steel producing companies in the country have made considerable profit during the last financial year. Many Asian countries have been importing huge quantities of steel from Pakistan

A Statement I is the cause and statement II is its effect.

B Statement II is the cause and statement I is its effect

C Both the statements I and II are independent causes

D Both the statements I and II are effects of some common cause

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Q198 Complete the series A3.3, B6.6, C9.9, _____?

A D13.4

B D13.2

C D13.1

D D13.2

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Q199

A temperature of 162 C is equivalent to what temperature in kelvins?

A

-111 K

B

362 K

C

425 K

D

111 K

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Q200

One isotope of Uranium is U-238. Any other isotope of Uranium must have

A

146 protons

B

92 protons

C

92 neutrons

D

146 neutrons

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Q201

When currents are moving in the same direction in two conductors, then the force will be

A

attractive

B

repulsive

C

retracting

D

opposing

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Q202

The minimum charge on an object can not be less than:

A

$1.6 \times 10^{-19} \text{ C}$

B

$9 \times 10^9 \text{ C}$

C

$9.1 \times 10^{-31} \text{ C}$

D

$1.6 \times 10^{-27} \text{ C}$

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Q203

As compared to thin wires, thick wires have

A more resistance

B no resistance

C less resistance

D same resistance

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Q204 Which of the following are product of following reaction in the presence of sunlight? $\text{CH}_4 + \text{Cl}_2 \rightarrow ?$

A CHCl_3

B CCl_4

C $\text{CH}_2\text{Cl}_2, \text{CH}_3\text{Cl}$

D All of these

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Q205

A real gas obeying Van der Waals equation will resemble to ideal gas if both a & b are

A

small

B

large

C

equal

D

none of these

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Q206

Which step causes activation of catalytic site of an enzyme?

A Change in pH of the surroundings.

B Change in the charge of the active site.

C Change in temperature

D Formation of Enzyme Substrate complex

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Q207

In oxidation number method of Balancing the first step is to write

A Oxidation number on Reactants

B Oxidation number on products

C Oxidation number for both reactants & Products

D None of these

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Q208

Which sulphates is not soluble in water?

A Sodium sulphate

B Potassium sulphate

C Zinc sulphate

D Barium sulphate

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Q209

Which scientist does not match his achievements in the following options?

A

Lamarck published his theory of evolution

B

Lyell published principles of geology

C

Malthus published essay on principle of population

D

Cuvier published papers on inheritance

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Q210

In human female, the release of ovum from the follicle is called:

A

ovulation

B

fertilization

C

menstruation

D

Implantation

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